

F I G. 1

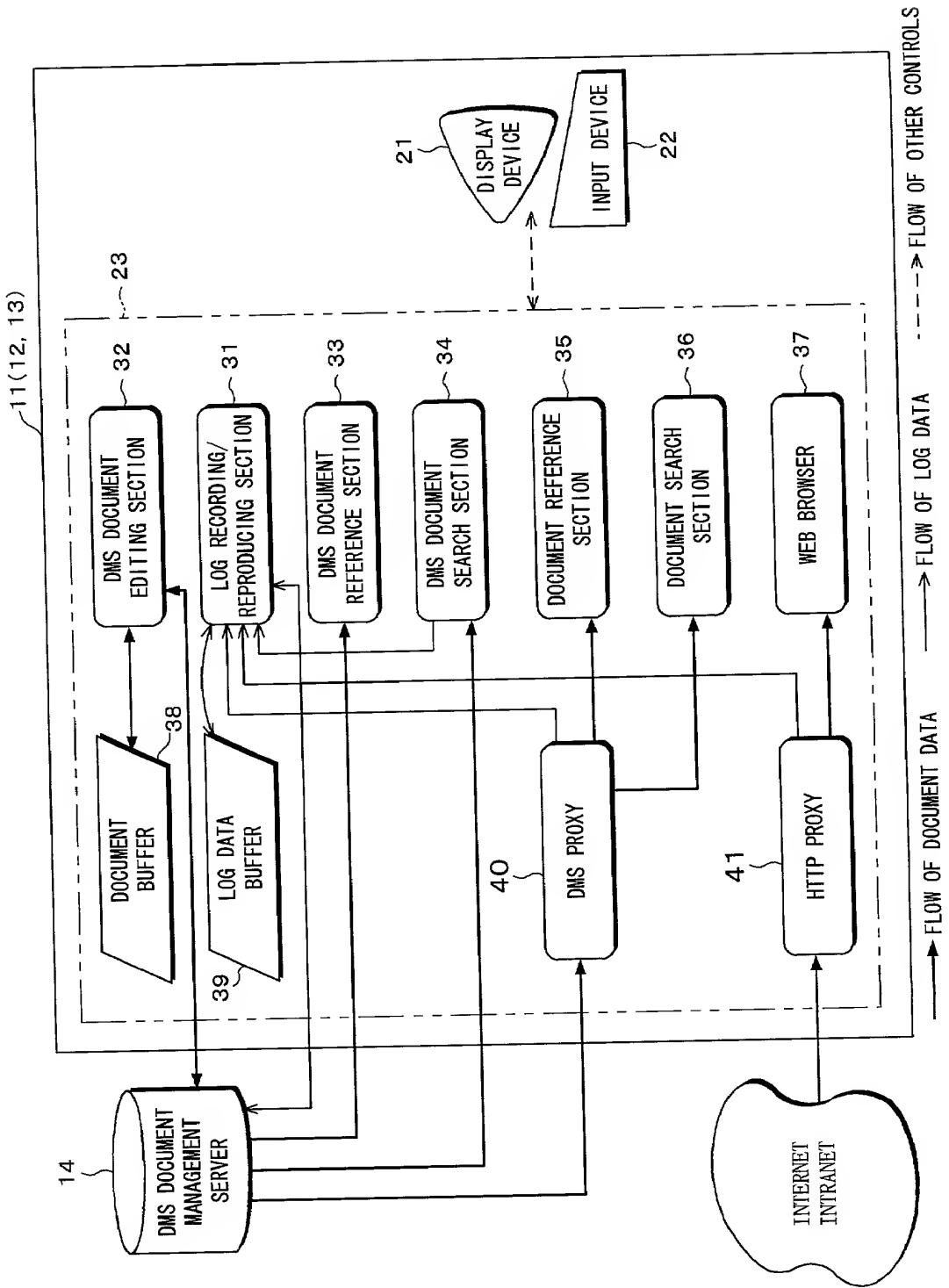


FIG. 2

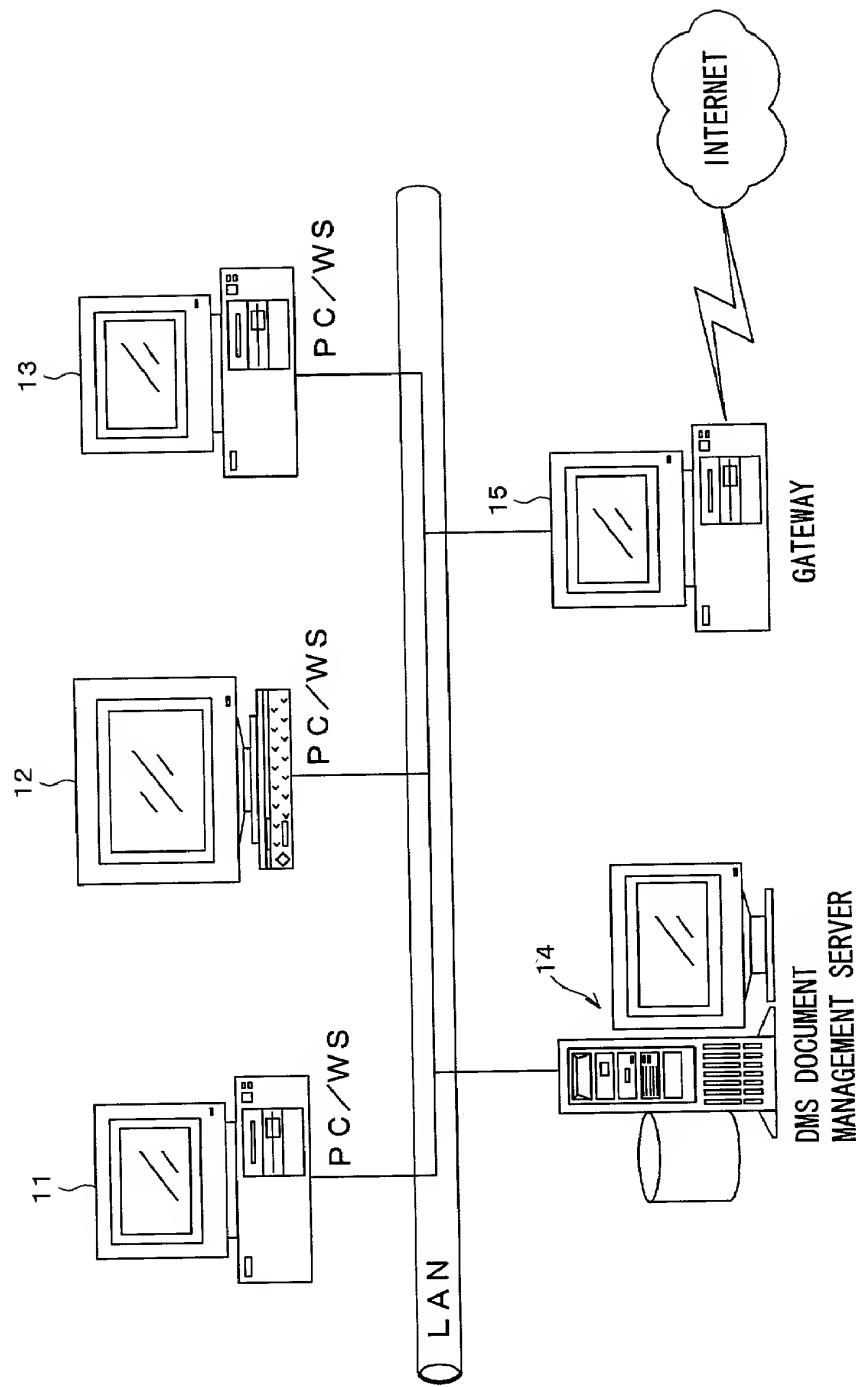
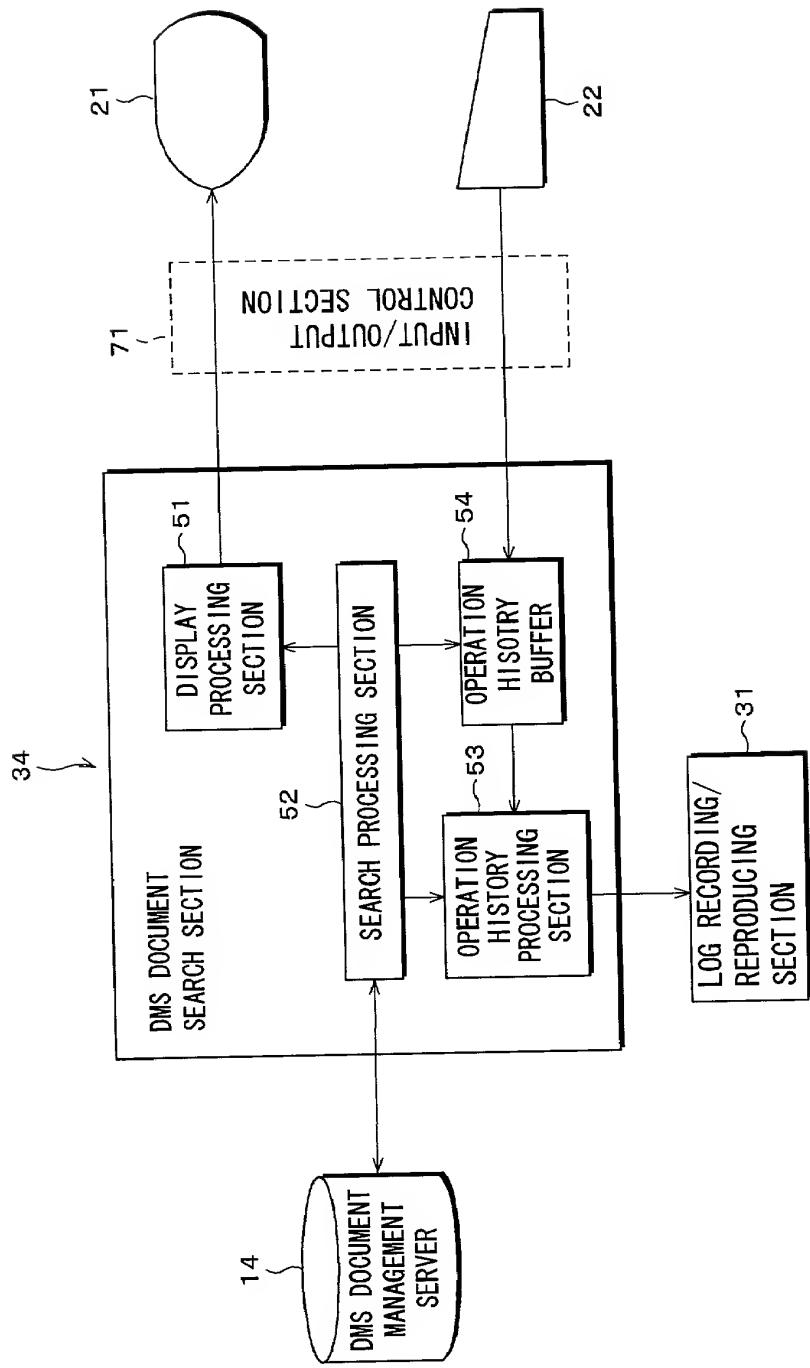


FIG. 3



F I G. 4

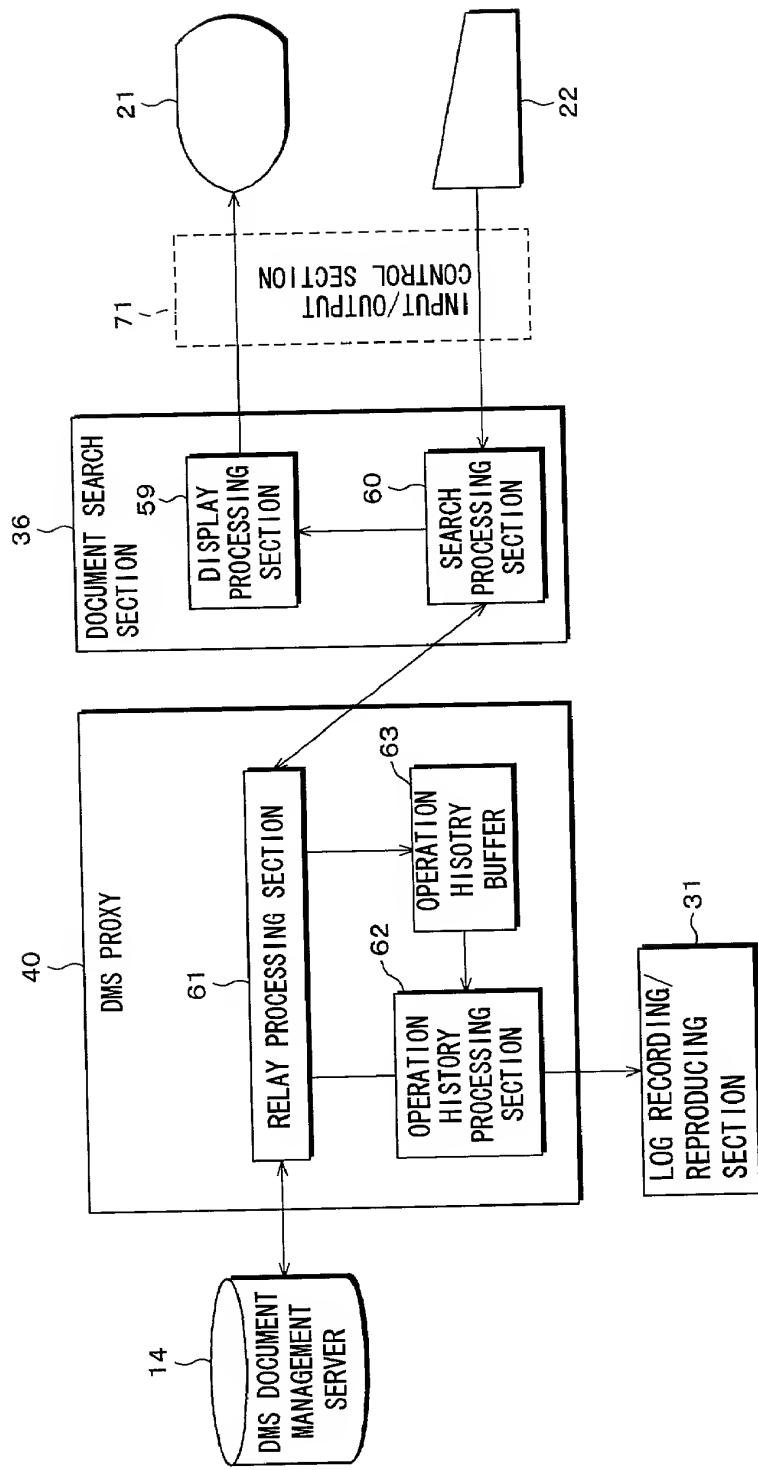


FIG. 5

RECORDING ORDER	AP OPERATED	OPERATION CONTENT	OPERATION INFORMATION
.....
1111 DMS DOCUMENT EDITING SECTION	MOVE CURSOR	896	"COMMON AMONG TECHNICAL SECTIONS", "TERM INLOGIES FOR IMAGE PROCESSING", 2.0
1112 DMS DOCUMENT REFERENCE SECTION	START DISPLAY		
1113 DMS DOCUMENT REFERENCE SECTION	SERACH CHARACTER	"DCT"	6144, 6
1114 DMS DOCUMENT REFERENCE SECTION	MOVE CURSOR	6126	
1115 DMS DOCUMENT REFERENCE SECTION	COPY		"DISCRETE COSINE TRANSLATION", 6142
1116 DMS DOCUMENT EDITING SECTION	PASTE		"DISCRETE COSINE TRANSLATION", 912
1117 DMS DOCUMENT EDITING SECTION	MANUAL INPUT	"IS" 914	

FIG. 6

CREATION SCREEN

(a 1)

..... USED IN JPEG
| ORTHOGONAL TRANSLATION

(a 2)

..... USED IN JPEG
| DISCRETE COSINE TRANSLATION
| ORTHOGONAL TRANSLATION

(a 3)

..... COSINE TRANSLATION
USED IN JPEG IS | ORTHOGONAL
TRANSLATION

REFERENCE SCREEN

(b 1)

.....
REED SOLOMON CODE:
DISCRETE COSINE TRANSLATION (DCT) :
.....

(b 2)

.....
REED SOLOMON CODE:
DISCRETE COSINE TRANSLATION (DCT) :
.....

(b 3)

.....
REED SOLOMON CODE:
DISCRETE COSINE TRANSLATION (DCT) :
.....

F I G. 7 (a)

OOOOOOOOOOOO, OOOOOOOOOOOOOOOOOOOOOOO. OO
OOOOOOOOOOOOOOOOOOOOOOOOOOOO?

F I G. 7 (b)

0 0 0 1	0 ~ 6 4
0 0 0 2	6 4 ~ 1 2 4
0 0 0 3	
.....	

F I G. 7 (c)

0 0 0 1	0
0 0 0 2	6 4
0 0 0 3	1 2 4
.....	

F I G. 7 (d)

1. OOOOOOOOOO
1. 1OOOOOOOOOOOOOOOOOOOOOOOO
1) OOOOOOOOOO
.....

F I G. 7 (e)

1.	0 ~ 2 5
1. 1	2 5 ~ 7 4
1. 1 1)	7 4 ~ ...
.....

FIG. 8

RECORDING ORDER	POSITION	AP OPERATED	OPERATION CONTENT	OPERATION INFORMATION
.....
1111 1	904	DMS DOCUMENT EDITING SECTION	MOVE CURSOR	896
1112	896	DMS DOCUMENT REFERENCE SECTION	START DISPLAY	"COMMON AMONG TECHNICAL SECTIONS" "TERMINOLOGIES FOR IMAGE PROCESSING", 2.0
1113	896	DMS DOCUMENT REFERENCE SECTION	SERACH CHARACTER	"DCT", 6144, 6
1114	896	DMS DOCUMENT REFERENCE SECTION	MOVE CURSOR	6126
1115	896	DMS DOCUMENT REFERENCE SECTION	COPY	"DISCRETE COSINE TRANSLATION", 6142
1116	896	DMS DOCUMENT EDITING SECTION	PASTE	"DISCRETE COSINE TRANSLATION", 912
1117	912	DMS DOCUMENT EDITING SECTION	MANUAL INPUT	"IS" 914

FIG. 9

RECORDING ORDER	POSITION	AP OPERATED	OPERATION CONTENT	OPERATION INFORMATION
.....
1109	896	DMS DOCUMENT EDITING SECTION	MANUAL INPUT	"ORTHOGONAL", 900
1110	900	DMS DOCUMENT EDITING SECTION	MANUAL INPUT	"TRANSLATION", 904
1111	904	DMS DOCUMENT EDITING SECTION	MOVE CURSOR	896
1112	896	DMS DOCUMENT REFERENCE SECTION	START DISPLAY	"COMMON AMONG TECHNICAL SECTIONS" "TERMINOLOGIES FOR IMAGE PROCESSING", 2.0
1113	896	DMS DOCUMENT REFERENCE SECTION	SERACH CHARACTER	"DCT", 6144, 6
1114	896	DMS DOCUMENT REFERENCE SECTION	MOVE CURSOR	6126
1115	896	DMS DOCUMENT REFERENCE SECTION	COPY	"DISCRETE COSINE TRANSLATION", 6142

F I G. 1 0

"ORTHOGONAL" 900
"TRANSLATION" 904
"MOVE CURSOR" 896
"SERACH CHARACTER" 6
"COPY" 6126
"PASTE" 6142
"DISCRETE COSINE TRANSLATION" 912

RECORDING ORDER	POSITION	AP OPERATED	OPERATION CONTENT	OPERATION INFORMATION
.....
1 109	912	DMS DOCUMENT EDITING SECTION	MANUAL INPUT	"ORTHOGONAL", 900
1 110	916	DMS DOCUMENT EDITING SECTION	MANUAL INPUT	"TRANSLATION", 904
1 111	904	DMS DOCUMENT EDITING SECTION	MOVE CURSOR	896
1 112	896	DMS DOCUMENT REFERENCE SECTION	START DISPLAY	"COMMON AMONG TECHNICAL SECTIONS" "TERMINOLOGIES FOR IMAGE PROCESSING", 2.0
1 113	896	DMS DOCUMENT REFERENCE SECTION	SERACH CHARACTER	"DCT", 6144, 6
1 114	896	DMS DOCUMENT REFERENCE SECTION	MOVE CURSOR	6126
1 115	896	DMS DOCUMENT REFERENCE SECTION	COPY	"DISCRETE COSINE TRANSLATION", 6142
1 116	896	DMS DOCUMENT EDITING SECTION	PASTE	"DISCRETE COSINE TRANSLATION", 912

F I G. 1 1

..... COSINE TRANSLATION AS ONE EXAMPLE OF
ORTHOGONAL TRANSLATION USED IN JPEG IS |

FIG. 12

RECORDING ORDER	POSITION	AP OPERATED	OPERATION CONTENT	OPERATION INFORMATION
.....
1109	896	DMS DOCUMENT EDITING SECTION	MANUAL INPUT	"ORTHOGONAL", 900
1110	900	DMS DOCUMENT EDITING SECTION	MANUAL INPUT	"TRANSLATION", 904
1111	904	DMS DOCUMENT EDITING SECTION	MOVE CURSOR	896
1112	*896	DMS DOCUMENT REFERENCE SECTION	START DISPLAY	"COMMON AMONG TECHNICAL SECTIONS" "TERMINOLOGIES FOR IMAGE PROCESSING", 2.0
1113	*896	DMS DOCUMENT REFERENCE SECTION	SERACH CHARACTER	"DCT", 6144, 6
1114	*896	DMS DOCUMENT REFERENCE SECTION	MOVE CURSOR	6126
1115	*896	DMS DOCUMENT REFERENCE SECTION	COPY	"DISCRETE COSINE TRANSLATION", 6142
1116	896	DMS DOCUMENT EDITING SECTION	PASTE	"DISCRETE COSINE TRANSLATION", 912
.....
1122	DMS DOCUMENT EDITING SECTION	MOVE CURSOR	896
1123	896	DMS DOCUMENT EDITING SECTION	DELETE	"DISCRETE COSINE TRANSLATION IS", (914)
.....

FIG. 13

RECORDING ORDER	POSITION	AP OPERATED	OPERATION CONTENT	OPERATION INFORMATION
.....
1 109	896	DMS DOCUMENT EDITING SECTION	MANUAL INPUT	"ORTHOGONAL", 900
1 110	900	DMS DOCUMENT EDITING SECTION	MANUAL INPUT	"TRANSLATION", 904
1 111	904	DMS DOCUMENT EDITING SECTION	MOVE CURSOR	896
1 112	916	DMS DOCUMENT REFERENCE SECTION	START DISPLAY	"COMMON AMONG TECHNICAL SECTIONS", "TECHNOLOGIES FOR IMAGE PROCESSING", 2.0
1 113	916	DMS DOCUMENT REFERENCE SECTION	SERACH CHARACTER	"DCT", 6144, 6
1 114	916	DMS DOCUMENT REFERENCE SECTION	MOVE CURSOR	6126
1 115	916	DMS DOCUMENT REFERENCE SECTION	COPY	"DISCRETE COSINE TRANSLATION", 6142
1 116	896	DMS DOCUMENT EDITING SECTION	PASTE	"DISCRETE COSINE TRANSLATION", 912
.....
1 122	DMS DOCUMENT EDITING SECTION	MOVE CURSOR	896
1 123	896	DMS DOCUMENT EDITING SECTION	DELETE	"DISCRETE COSINE TRANSLATION IS", (914)
1 124	896	DMS DOCUMENT EDITING SECTION	MOVE CURSOR	916
1 125	916	DMS DOCUMENT EDITING SECTION	PASTE	"DISCRETE COSINE TRANSLATION IS", (934)

F I G. 14

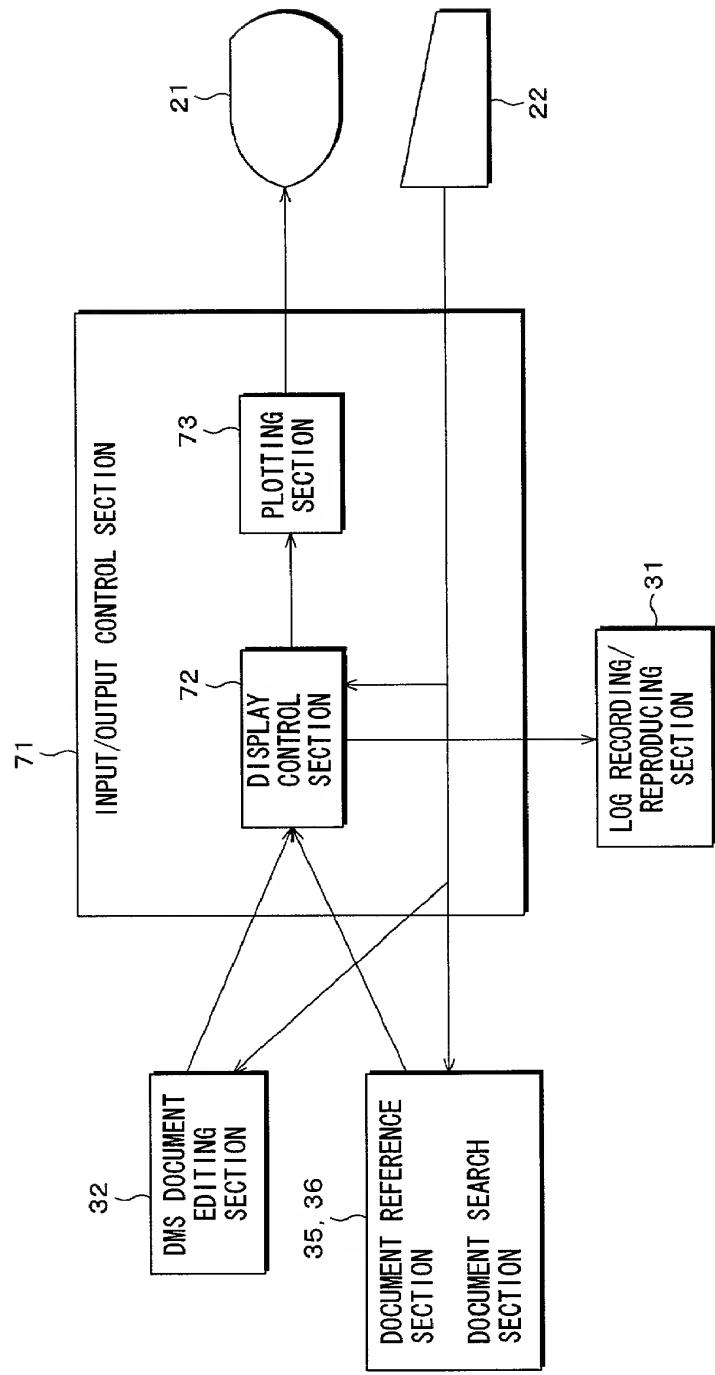


FIG. 15

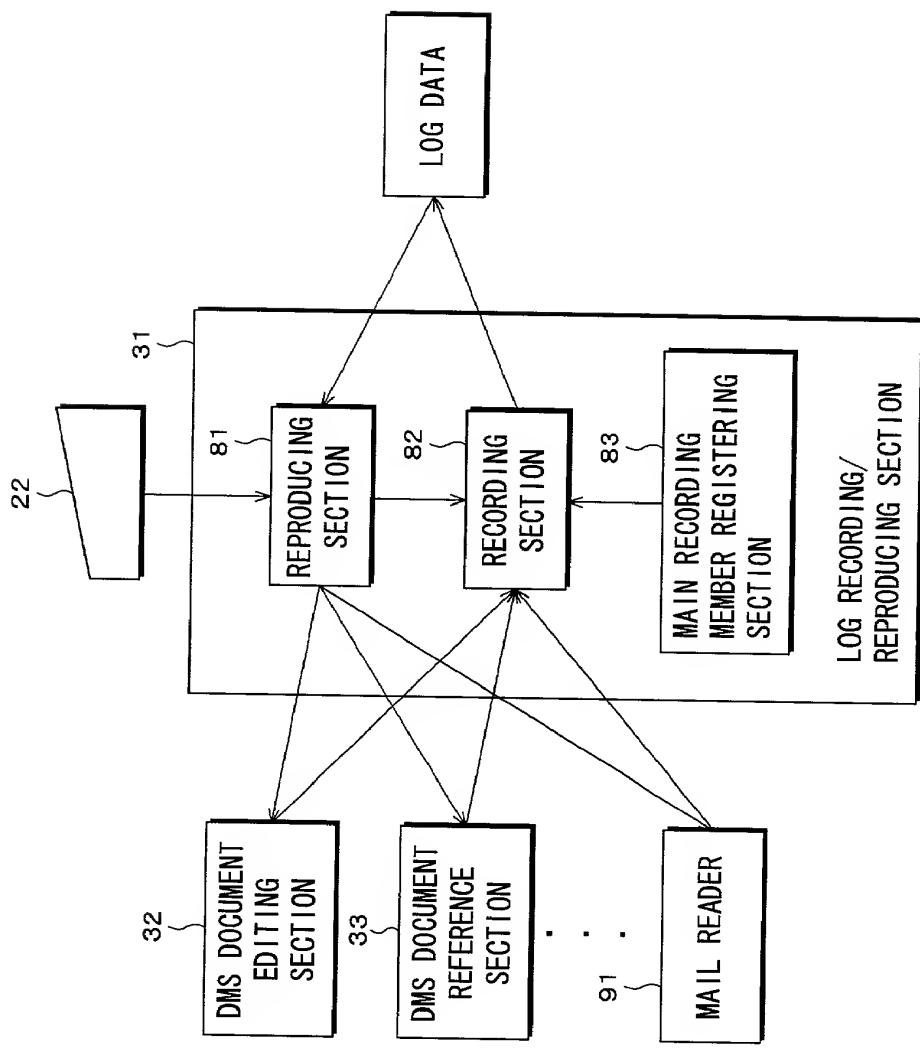
RECORDING ORDER	POSITION	AP OPERATED	OPERATION CONTENT	OPERATION INFORMATION
.....
11111	904	DMS DOCUMENT EDITING SECTION	MOVE CURSOR	896
11112	896	DMS DOCUMENT REFERENCE SECTION 1	NON-DISPLAY	
11113	896	DMS DOCUMENT REFERENCE SECTION 2	START DISPLAY	"COMMON AMONG TECHNICAL SECTIONS", "TECHNOLOGIES FOR IMAGE PROCESSING", 2.0
11114	896	DMS DOCUMENT REFERENCE SECTION 2	SEARCH CHARACTER	"DCT", 6144, 6
11115	896	DMS DOCUMENT REFERENCE SECTION 2	MOVE CURSOR	6126
11116	896	DMS DOCUMENT REFERENCE SECTION 2	COPY	"DISCRETE COSINE TRANSLATION", 6142
11117	896	DMS DOCUMENT EDITING SECTION	PASTE	"DISCRETE COSINE TRANSLATION", 912
.....
12336	1088	DMS DOCUMENT REFERENCE SECTION 2	NON-DISPLAY	
12337	1088	DMS DOCUMENT REFERENCE SECTION 1	RE-DISPLAY	
.....

F I G. 16

CONDITIONS FOR SELECTION BETWEEN WINDOW DISPLAY AND NON-DISPLAY

- DISPLAY FRONT SCREENS
- DISPLAY READABLE AREA OF NOT SMALLER THAN
 CHARACTERS \times LINES

F I G. 1 7



F I G. 18

DMS DOCUMENT REFERENCE SECTION
DMS DOCUMENT SEARCH SECTION
HTTP PROXY

FIG. 19

RECORDING ORDER	POSITION	AP OPERATED	OPERATION CONTENT	OPERATION INFORMATION
.....
1112	896	DMS DOCUMENT REFERENCE SECTION 1	NON-DISPLAY	"COMMON AMONG TECHNICAL SECTIONS" "TERMINOLOGIES FOR IMAGE PROCESSING", 2.0
1113	896	DMS DOCUMENT REFERENCE SECTION 2	START DISPLAY	
1114	896	DMS DOCUMENT REFERENCE SECTION 2	SEARCH CHARACTER	"DCT", 6144, 6
1115	896	DMS DOCUMENT REFERENCE SECTION 2	NON-DISPLAY	
1116	896	MAIL READER	START DISPLAY	"INVITATION FOR SOCIAL GATHERING TRIP", ...
1117	896	MAIL READER	CLOSE	
1118	896	DMS DOCUMENT REFERENCE SECTION 2	RE-DISPLAY	
1119	896	DMS DOCUMENT REFERENCE SECTION 2	MOVE CURSOR	6126
1120	896	DMS DOCUMENT REFERENCE SECTION 2	COPY	"DISCRETE COSINE TRANSLATION", 6142
1121	896	DMS DOCUMENT EDITING SECTION	PASTE	"DISCRETE COSINE TRANSLATION", 912
.....

F I G. 2 0

"*common among technical sections*"
and "image processing", 2.0
"discrete cosine translation", 912
"discrete cosine translation", 912

RECORDING ORDER	POSITION	AP OPERATED	OPERATION CONTENT	OPERATION INFORMATION
.....
1112	896	DMS DOCUMENT REFERENCE SECTION 1	NON-DISPLAY	"COMMON AMONG TECHNICAL SECTIONS"
1113	896	DMS DOCUMENT REFERENCE SECTION 2	START DISPLAY	"TERMINOLOGIES FOR IMAGE PROCESSING", 2.0
1114	896	DMS DOCUMENT REFERENCE SECTION 2	SEARCH CHARACTER	"DCT", 6144, 6
1115	896	DMS DOCUMENT REFERENCE SECTION 2	NON-DISPLAY	
1116	#896	MAIL READER	START DISPLAY	"INVITATION FOR SOCIAL GATHERING TRIP", ...
1117	#896	MAIL READER	CLOSE	
1118	896	DMS DOCUMENT REFERENCE SECTION 2	RE-DISPLAY	
1119	896	DMS DOCUMENT REFERENCE SECTION 2	MOVE CURSOR	6126
1120	896	DMS DOCUMENT REFERENCE SECTION 2	COPY	"DISCRETE COSINE TRANSLATION", 6142
1121	896	DMS DOCUMENT EDITING SECTION	PASTE	"DISCRETE COSINE TRANSLATION", 912
.....

FIG. 21

"COMMON AMONG TECHNICAL SECTIONS",
"TERMINOLOGIES FOR IMAGE PROCESSING", 2.0

RECORDING ORDER	POSITION	AP OPERATED	OPERATION CONTENT	OPERATION INFORMATION
.....
1112	896	DMS DOCUMENT REFERENCE SECTION 1	NON-DISPLAY	
1113	896	DMS DOCUMENT REFERENCE SECTION 2	START DISPLAY	"COMMON AMONG TECHNICAL SECTIONS", "TERMINOLOGIES FOR IMAGE PROCESSING", 2.0
1114	896	DMS DOCUMENT REFERENCE SECTION 2	SEARCH CHARACTER	"DCT", 6144, 6
1115	#896	DMS DOCUMENT REFERENCE SECTION 2	NON-DISPLAY	
1116	#896	MAIL READER	START DISPLAY	"INVITATION FOR SOCIAL GATHERING TRIP", ...
1117	#896	MAIL READER	CLOSE	
1118	#896	DMS DOCUMENT REFERENCE SECTION 2	RE-DISPLAY	
1119	896	DMS DOCUMENT REFERENCE SECTION 2	MOVE CURSOR	6126
1120	896	DMS DOCUMENT REFERENCE SECTION 2	COPY	"DISCRETE COSINE TRANSLATION", 6142
1121	896	DMS DOCUMENT EDITING SECTION	PASTE	"DISCRETE COSINE TRANSLATION", 912
.....

F I G. 2 2

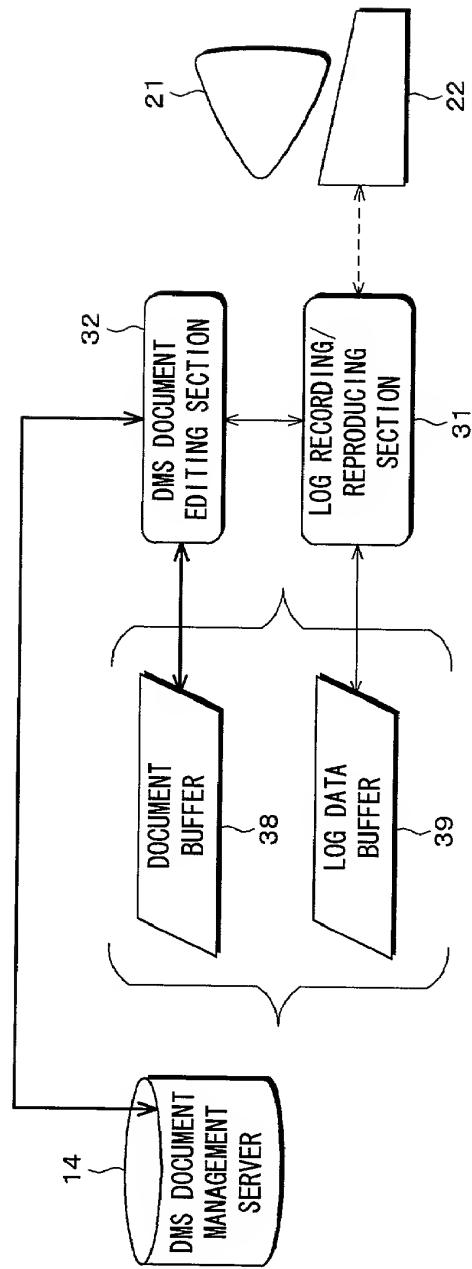


FIG. 23

